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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-07-31-06** **Date: 02-08-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-18
Sample ID No	:	2018-07-31-06 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	01-08-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	522	649	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.613	537	658	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	549	672	20.5%	Satisfactory	Satisfactory

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Executive Engineer
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End of Report

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-07-31-06 **Date: 03-08-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-18
Sample ID No	:	2018-07-31-06 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-08-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.79	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.5	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-31-06**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. **Date: 29-08-18**
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-18
Sample ID No	:	2018-07-31-06 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-08-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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Page 1/1
****End of Report****

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Bangalore - 560 092

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-31-06** **Date: 03-08-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	31-07-18
Sample ID No	:	2018-07-31-06 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	31-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	389	389	2.6	97.4	90-100
3	20 mm	7445	7834	52.2	47.8	30-70
4	10 mm	4896	12730	84.9	15.1	10-35
5	4.75 mm	1805	14535	96.9	3.1	0-5
6	Pan	465	15000	100.0	0	---

AE(L-7)

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Kodigehalli Sub Division
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Bangalore - 560 092

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-31-06 **Date: 03-08-18**

Sample ID No : 2018-07-31-06 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.39	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.29	–

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-31-06** **Date: 03-08-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-18
Sample ID No	:	2018-07-31-06 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	31-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	189	189	3.8	96.2	90-100
3	10 mm	2499	2688	53.8	46.2	25-55
4	4.75 mm	2011	4699	94.0	6.0	0-10
5	Pan	301	5000	100	0	–

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
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Certificate No.: TC- 5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-31-06** **Date: 03-08-18**

Sample ID No : 2018-07-31-06 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.38	–
7	Aggregate crushing Value(%)	26.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	28.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-07-31-06** **Date: 03-08-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07,
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-18
Sample ID No	:	2018-07-31-06 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	31-07-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	12	12	1.2	98.8	90-100	90-100	90-100	95-100
3	2.36 mm	151	163	16.3	83.7	60-95	75-100	85-100	95-100
4	1.18 mm	242	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	202	607	60.7	39.3	15-34	35-59	60-79	80-100
6	300 micron	186	793	79.3	20.7	5-20	8-30	12-40	15-50
7	150 micron	175	968	96.8	3.2	0-10	0-10	0-10	0-15
8	Pan	32	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Certificate No.: TC- 5548

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-31-06** **Date: 03-08-18**

Sample ID No : 2018-07-31-06 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.53	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	3.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-08-07-02** **Date: 10-08-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-08-18
Sample ID No	:	2018-08-07-02 /07
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	07-08-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	151	203	12323	24.520	1989.9	2000.4	Not less than 1800Kg/m^3
2	401	150	201	12090	24.570	2032.2		
3	403	152	203	12435	24.610	1979.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.350	24.150	4.97	5.03	Shall not be more than 10% by mass
2	25.490	24.230	5.20		
3	25.380	24.190	4.92		

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: CP-2018-08-07-02 Date: 10-08-18

D No : 2018-08-07-02 /07

NSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	151	202	
2	401	150	201	
3	402	152	203	
4	403	149	201	
5	400	150	203	
6	403	153	201	
7	402	150	202	
8	401	149	201	
9	403	150	203	
10	401	150	201	
11	402	151	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
12	403	150	201	
13	402	153	203	
14	403	149	201	
15	401	151	203	
16	402	150	199	
17	401	150	201	
18	402	153	203	
19	403	150	201	
20	402	152	202	
Average of 20	402	151	202	

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Certificate No.: TC- 5548

Lab ID : CP-2018-08-07-02

Date: 10-08-18

Sample ID No : 2018-08-07-02 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	151	60853	271.6	4.5	4.1
2	401	150	60150	255.4	4.2	
3	402	152	61104	249.7	4.1	
4	403	149	60047	219.9	3.7	
5	400	150	60000	238.6	4.0	
6	403	153	61659	244.5	4.0	
7	402	150	60300	248.9	4.1	
8	401	149	59749	265.3	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560092

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CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-16-01 **Date: 20/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs 228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-18

Sample ID No : 2018-08-16-01 /01

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	150.64 X 149.24 X 149.74	22481	8.172	393.4	17.5	17.7
2	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	151.02 X 149.89 X 151.11	22636	8.386	409.7	18.1	
3	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	150.77 X 150.93 X 150.43	22757	8.384	400.5	17.6	

Note:
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AE(Ltg).ND

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 063

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Authorized Signatory
Quality Manager

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-16-01

Date: 10/09/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs 228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-18

Sample ID No : 2018-08-16-01 /02

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	149.40 X 151.89 X 150.56	22692	8.027	506.0	22.3	22.6
2	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	149.33 X 151.48 X 149.58	22621	8.118	522.5	23.1	
3	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	150.88 X 149.26 X 150.94	22520	8.383	504.4	22.4	

Note:
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AE(Ind)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/08/2018

Lab ID	:	**CP-2018-08-16-01**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-18
Sample ID No	:	2018-08-16-01 /03
Customer ID	:	M20 Concrete (RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	151.37 X 149.39 X 149.45	22613	8.353	398.0	17.6	17.6
2	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	149.24 X 150.29 X 149.94	22429	8.442	388.0	17.3	
3	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	150.75 X 150.19 X 149.83	22640	8.177	405.3	17.9	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-16-01 **Date: 10/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-18

Sample ID No : 2018-08-16-01 /04

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	151.55 X 151.99 X 149.51	23035	8.381	532.1	23.1	22.7
2	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	150.09 X 149.20 X 149.77	22395	8.528	506.1	22.6	
3	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	150.60 X 149.10 X 151.94	22455	7.965	503.0	22.4	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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CIVIL Pro BANGALORE Sig. Date

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 23/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/08/2018	23/08/2018	150.63 X 149.49 X 151.04	22517	8.152	418.8	18.6	18.1
2	M20 Concrete	M20	16/08/2018	23/08/2018	151.08 X 151.11 X 151.21	22831	8.137	397.3	17.4	
3	M20 Concrete	M20	16/08/2018	23/08/2018	150.20 X 149.39 X 151.31	22439	8.136	412.9	18.4	

Note:
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AE(WZ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO Sig..... Date..... BANGALORE

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 13/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/08/2018	13/09/2018	151.45 X 149.70 X 151.86	22672	8.308	501.0	22.1	
2	M20 Concrete	M20	16/08/2018	13/09/2018	149.45 X 150.21 X 149.38	22448	7.966	491.6	21.9	22.1
3	M20 Concrete	M20	16/08/2018	13/09/2018	149.43 X 149.42 X 149.89	22327	8.339	500.1	22.4	

Note:
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AE(Tr)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-20-02** **Date: 23/08/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-02 /01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/08/2018	23/08/2018	150.59 X 150.19 X 151.03	22617	7.975	420.7	18.6	18.3
2	M20 Concrete	M20	16/08/2018	23/08/2018	151.57 X 149.85 X 151.90	22713	8.442	406.6	17.9	
3	M20 Concrete	M20	16/08/2018	23/08/2018	150.08 X 150.15 X 151.77	22534	8.216	414.6	18.4	

Note:
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All information furnished by Customer/Representative
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N.D

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

****End of Report****

CIVIL PRO Sig..... Date..... BANGALORE

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Quality Manager

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 13/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/08/2018	13/09/2018	150.66 X 151.98 X 150.37	22896	8.182	544.9	23.8	23.4
2	M20 Concrete	M20	16/08/2018	13/09/2018	151.16 X 149.97 X 149.85	22671	8.153	519.2	22.9	
3	M20 Concrete	M20	16/08/2018	13/09/2018	149.39 X 151.83 X 150.89	22683	8.202	530.8	23.4	

Note:
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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AE(Nzd)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

****End of Report****

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 23/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/08/2018	23/08/2018	151.37 X 150.85 X 151.04	22835	8.012	420.2	18.4	18.5
2	M20 Concrete	M20	16/08/2018	23/08/2018	149.98 X 151.37 X 151.89	22703	8.354	429.1	18.9	
3	M20 Concrete	M20	16/08/2018	23/08/2018	150.67 X 151.87 X 151.62	22883	8.218	418.8	18.3	

Note:

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AE(WS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

****End of Report****

FOR CIVIL Pro.

CIVIL Pro BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-20-02** **Date: 13/09/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-02 /02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/08/2018	13/09/2018	149.69 X 150.57 X 150.49	22538	8.286	504.8	22.4	22.5
2	M20 Concrete	M20	16/08/2018	13/09/2018	149.33 X 150.42 X 151.11	22461	8.448	496.4	22.1	
3	M20 Concrete	M20	16/08/2018	13/09/2018	149.39 X 150.48 X 151.31	22481	8.350	514.8	22.9	

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AE(I-1)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

End of Report

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 23/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/08/2018	23/08/2018	150.32 X 149.05 X 151.20	22406	8.406	401.1	17.9	18.1
2	M20 Concrete	M20	16/08/2018	23/08/2018	151.74 X 150.08 X 150.98	22774	8.159	419.0	18.4	
3	M20 Concrete	M20	16/08/2018	23/08/2018	150.36 X 150.15 X 150.91	22576	8.241	404.1	17.9	

Note:

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AE(NZ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-20-02** **Date: 13/09/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-02 /02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/08/2018	13/09/2018	149.33 X 149.13 X 151.37	22269	8.200	510.0	22.9	22.6
2	M20 Concrete	M20	16/08/2018	13/09/2018	151.80 X 150.83 X 151.79	22895	8.293	496.8	21.7	
3	M20 Concrete	M20	16/08/2018	13/09/2018	150.63 X 150.51 X 149.27	22672	8.032	523.7	23.1	

Note:
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AE(RZ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

****End of Report****

FOR CIVIL Pro.
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02

Date: 24/08/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/08/2018	24/08/2018	151.75 X 150.79 X 150.94	22882	8.554	382.1	16.7	16.8
2	M20 Concrete	M20	17/08/2018	24/08/2018	151.22 X 149.02 X 150.42	22535	8.388	389.8	17.3	
3	M20 Concrete	M20	17/08/2018	24/08/2018	150.24 X 151.23 X 151.37	22720	8.157	374.9	16.5	

Note:
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AE(HQ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs 228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/08/2018	14/09/2018	149.25 X 149.84 X 151.11	22364	8.124	527.8	23.6	23.0
2	M20 Concrete	M20	17/08/2018	14/09/2018	151.09 X 151.37 X 151.32	22870	8.470	500.9	21.9	
3	M20 Concrete	M20	17/08/2018	14/09/2018	149.80 X 151.19 X 151.44	22649	8.494	532.3	23.5	

Note:
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 24/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/08/2018	24/08/2018	150.98 X 149.04 X 150.90	22502	8.268	425.3	18.9	17.9
2	M20 Concrete	M20	17/08/2018	24/08/2018	150.87 X 149.18 X 149.77	22507	8.151	389.4	17.3	
3	M20 Concrete	M20	17/08/2018	24/08/2018	150.45 X 150.06 X 151.40	22576	8.243	392.8	17.4	

Note:

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All information furnished by Customer/Representative
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

AE(L-1)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

****End of Report****

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/08/2018	14/09/2018	150.28 X 151.56 X 149.70	22776	8.244	533.0	23.4	22.8
2	M20 Concrete	M20	17/08/2018	14/09/2018	149.69 X 151.17 X 151.99	22628	8.042	518.2	22.9	
3	M20 Concrete	M20	17/08/2018	14/09/2018	150.78 X 150.47 X 149.66	22687	8.435	501.4	22.1	

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

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Bangalore - 560 092

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 24/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/08/2018	24/08/2018	150.41 X 150.74 X 151.00	22673	8.234	417.2	18.4	18.0
2	M20 Concrete	M20	17/08/2018	24/08/2018	149.91 X 151.95 X 149.18	22779	8.055	389.5	17.1	
3	M20 Concrete	M20	17/08/2018	24/08/2018	150.41 X 149.87 X 150.97	22541	8.271	417.0	18.5	

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(NH)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO Sig..... Date..... BANGALORE

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/08/2018	14/09/2018	149.34 X 150.88 X 150.94	22532	8.112	489.0	21.7	22.1
2	M20 Concrete	M20	17/08/2018	14/09/2018	151.40 X 151.52 X 149.32	22939	8.328	525.3	22.9	
3	M20 Concrete	M20	17/08/2018	14/09/2018	151.38 X 149.53 X 150.19	22637	8.382	489.0	21.6	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02

Date: 25/08/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	18/08/2018	25/08/2018	150.22 X 149.61 X 150.67	22474	8.388	402.3	17.9	17.9
2	M20 Concrete	M20	18/08/2018	25/08/2018	150.61 X 149.11 X 151.61	22457	8.301	417.7	18.6	
3	M20 Concrete	M20	18/08/2018	25/08/2018	151.41 X 151.15 X 151.89	22885	8.116	395.9	17.3	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst.Engg. N.D
AE(W-4)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2018-08-20-02 **Date: 15/09/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.
Agency	:	M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/BTP/WO/71/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-18
Sample ID No	:	2018-08-20-02 /02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	18/08/2018	15/09/2018	151.02 X 151.94 X 149.86	22947	8.301	539.3	23.5	23.3
2	M20 Concrete	M20	18/08/2018	15/09/2018	149.18 X 150.88 X 149.42	22508	8.385	508.7	22.6	
3	M20 Concrete	M20	18/08/2018	15/09/2018	149.37 X 149.48 X 151.27	22328	8.348	533.7	23.9	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
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Bangalore - 560 092

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 25/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	18/08/2018	25/08/2018	150.67 X 150.88 X 150.90	22734	8.238	400.1	17.6	17.6
2	M20 Concrete	M20	18/08/2018	25/08/2018	149.18 X 149.86 X 149.64	22357	8.329	406.9	18.2	
3	M20 Concrete	M20	18/08/2018	25/08/2018	149.80 X 149.65 X 149.04	22417	8.242	383.3	17.1	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(HQ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 15/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	18/08/2018	15/09/2018	149.59 X 151.90 X 150.65	22723	8.349	531.7	23.4	23.0
2	M20 Concrete	M20	18/08/2018	15/09/2018	150.90 X 149.45 X 151.12	22553	8.198	516.5	22.9	
3	M20 Concrete	M20	18/08/2018	15/09/2018	149.88 X 150.52 X 151.82	22561	8.038	509.9	22.6	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
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End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 25/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	18/08/2018	25/08/2018	151.78 X 150.39 X 151.65	22827	8.103	404.0	17.7	18.0
2	M20 Concrete	M20	18/08/2018	25/08/2018	151.97 X 149.04 X 150.29	22650	8.339	414.5	18.3	
3	M20 Concrete	M20	18/08/2018	25/08/2018	151.93 X 149.02 X 151.11	22641	8.531	407.5	18.0	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Applied - N.D
AE(L)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-20-02 **Date: 15/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -2, Includes 3 works of Rs.228.00 Lakhs 1) Desilting and repairs to side walls of storm water drain from Byatarayanapura Ayyappa temple road to Bata Showroom (Near NH-7 Bellary road) from L and T Compound to Venkatesh Reddy house at Byatarayanapura from Kriyanna House to Mandi Appaiah Farm House and from Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and improvements of toilets in Kempura, Yogeshnagara, Amruthanagara and surrounding area in ward No.07 Byatarayanapura. 3) Improvements of burial grouds and crematorium in ward No.07, Byatarayanapura.

Agency : M/s. Nischal Constructions, Sri.Naveen rao N, No.363, 10th main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560079

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-18

Sample ID No : 2018-08-20-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	18/08/2018	15/09/2018	150.70 X 150.04 X 149.53	22611	8.267	535.9	23.7	23.4
2	M20 Concrete	M20	18/08/2018	15/09/2018	151.91 X 150.17 X 150.12	22813	8.363	527.0	23.1	
3	M20 Concrete	M20	18/08/2018	15/09/2018	149.90 X 149.18 X 149.08	22362	8.499	523.3	23.4	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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FOR CIVIL Pro.
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